

FASEB Smooth Muscle Conference 1994  
Copper Mountain, Colorado, June 19-24

Monday, June 20 am

- 8:30-8:35 Casey van Breemen - Introduction to Smooth Muscle Conference  
Session 1: Avril Somlyo - What are the special features of the cross-bridge cycle in smooth muscle?  
8:35-9:15 David Warshaw - Cross-bridge mechanisms.  
9:15-9:55 Kathleen Trybus - Cross-bridge kinetics and molecular biology.  
9:55-10:25 Posters and coffee  
10:25-10:45 Presentation selected from poster abstracts. \*  
10:45-11:25 Avril Somlyo - Cross-bridge kinetics in permeabilized smooth muscle (regulation and cooperativity).  
11:25-12:05 David Hartshorne - Regulation of contractile proteins by kinases and phosphates.

Monday, June 20 pm

- Interdisciplinary Lectures  
2:00-2:45 Jim Stull - Molecular biology  
3:00-3:45 Mark Nelson - Patchclamping  
4:00-4:45 Fred Fay - Imaging  
Session 2: Mark Nelson - How do membrane depolarization and receptor activation stimulate  $\text{Ca}^{2+}$  influx?  
7:00-7:40 Mark Nelson - Voltage gate channels.  
7:40-8:20 Tom Bolton - Receptor operated channels.  
8:20-9:00 Posters and coffee  
9:00-9:20 Selected Presentation  
9:20-10:00 Franz Hofmann - Molecular biology of  $\text{Ca}^{2+}$  channels.

Tuesday, June 21 am

- Session 3: Jim Stull - What controls myofilament  $\text{Ca}^{2+}$  sensitivity?  
8:30-9:10 Andrew Somlyo - Regulation of myosin light chain phosphatase.  
9:10-9:50 Jim Stull -  $\text{Ca}^{2+}$  regulation of myosin light chain kinase.  
9:50-10:20 Posters and coffee  
10:20-10:40 Selected Speaker  
10:40-11:20 Kathleen Morgan - Protein kinase C and force generation.  
11:20-12:00 Mike Walsh - Thin filament regulation.

Tuesday, June 21 Evening

- Session 4: Gerrit Isenberg - What are the mechanisms of SR  $\text{Ca}^{2+}$  release? What are their relative contributions and how do they interact?  
7:00-7:40 Barbara Ehrlich - SR  $\text{Ca}^{2+}$  release channels.  
7:40-8:20 Gerrit Isenberg -  $\text{Ca}^{2+}$  induced  $\text{Ca}^{2+}$  release.  
8:20-9:00 Posters and coffee  
9:00-9:20 Selected Presentation  
9:20-10:00 M. Iino - Regulation of  $\text{IP}_3$  induced  $\text{Ca}^{2+}$  release.

\* One presentation per session will be selected from the poster application with a bias towards young scientists contributing novel ideas.

Wednesday, June 22 am

- Session 5: Fred Fay - What is the morphological basis for the interaction among various ion transporters, enzymes and myofilaments?  
8:30-9:10 Fred Fay- Local control of  $[Ca^{2+}]$  and  $[Na^+]$  in smooth muscle.  
9:10-9:50 Casey van Breemen - Interaction of plasmalemmal and SR  $Ca^{2+}$  transport.  
9:50-10:20 Posters and coffee  
10:20-10:40 Selected Presentation  
10:40-11:20 Michael Sturek - Local  $[Ca^{2+}]$  and its influence on  $GK^+$ .  
11:20-12:00 Rick Paul- Compartmentalization of ATP synthesis.

Wednesday, June 22 Evening

- Session 6: Rik Casteels - What mechanisms are responsible for  $Ca^{2+}$  homeostasis and relaxation?  
7:00-7:40 Ernesto Carafoli - Plasmalemmal  $Ca^{2+}$  pump.  
7:40-8:20 F. Wuytack - Saroplasmic/amnscoplasmic reticulum  $Ca^{2+}$  pump.  
8:20-9:00 Posters and coffee  
9:00-9:20 Selected Presentation  
9:20-10:00 M. Michalak -  $Ca^{2+}$  binding proteins.

Thursday, June 23 am

- Session 7: Kent Sanders - Which cellular mechanisms and intracellular interactions are responsible for smooth muscle rhythmicity?  
8:30-9:10 Kent Sanders - Generation of electrical rhythmicity in visceral smooth muscle.  
9:10-9:50 Tadeo Tomita - Voltage dependent and independent mechanisms.  
9:50-10:20 Posters and coffee  
10:20-10:40 Selected Presentation  
10:40-11:20 Rick Lang - Mathematical modelling of rhythmic activity.  
11:20-12:00 Burt Horowitz - Cloning and expression of voltage dependent  $K^+$  channels in smooth muscle.

Thursday, June 23 Evening

- Session 8: David Hirst - What are the mechanisms underlying basal vascular tone and how are they modulated during autoregulation?  
7:00-7:40 David Harder - Myogenic tone and autoregulation.  
7:40-8:20 David Hirst - Neural control.  
8:20-9:00 Posters and coffee  
9:00-9:20 Selected Presentation  
9:20-10:00 Josh Singer - Stretch activated channels.

Friday, June 24 am

- Session 9: Steve Schwartz - What roles does smooth muscle play in vascular pathology? What are the stimuli which induce smooth muscle proliferation and how can it be prevented?  
8:30-9:10 Steve Schwartz - Regulation of smooth muscle cell proliferation.  
9:10-9:50 Brad Berk- Ion channels and cell mass.  
9:50-10:20 Posters and coffee  
10:20-10:40 Selected Presentation  
10:40-11:20 Muthu Periasamy - Tissue specific control of contractile protein expression.  
11:20-12:00 Gary Owens - Genes responsible for smooth muscle differentiation.